

Joint drill starts

Seoul, Washington kick off military exercise, spark anger WORLD, PAGE 12 Post services extend into rural areas CHINA.PAGE 4



Chinese calendar's sixth solar term has links to language, literature LIFE, PAGE 17

香港版 HONG KONG

CHINADAILY

TUESDAY, April 19, 2022

中国日報

www.chinadailyhk.com

HK \$1

New satellite to advance research on atmospheric environment, pollution

By ZHAO LEI zhaolei@chinadailv.com.cn

Chinese scientists will soon have a new space-based tool to advance their research on the atmospheric environment and pollution.

After in-orbit tests, the Atmospheric Environmental Surveyor satellite will start its monitoring operations and send data to scientists, according to its designers at the Shanghai Academy of Spaceflight Technology.

The 2.6-metric ton satellite was launched by a Long March 4C carrier rocket on Saturday from the Taiyuan Satellite Launch Center in Shanxi province, and entered a sun-synchronous orbit 705 kilometers above Earth

It will be used to observe air pollution, greenhouse gases and other environmental elements. It will provide data for research on climate change and ecological changes, and will help to forecast agricultural yields and hazards, the designers said.

The spacecraft carries five atmospheric monitoring devise, including an environmental monitoring instrument, a directional polarization camera and a particle observation scanning polarization meter, said researchers at the Hefel Institutes of Physical Science of the Chinese Academy of Sciences who took part in the development of the scientific payload.

It is the world's first satellite using a laser radar to detect carbon dioxide.

It can also monitor other polluting gases such as nitrogen dioxide, sulfur dioxide and formaldehyde. In addition, the craft can conduct quantitative observation of atmospheric particulate pollutants.

Major users of data obtained by the satellite will be the Ministry of Ecology and Environment, the Ministry of Agriculture and Rural Affairs and the China Meteorological Administration.

The satellite will give China a world-class capability to carry out atmospheric remote-sensing operations to help with the country's efforts in achieving low-carbon development and reducing pollution, said the China National Snace Administration.

The administration also said it will launch a satellite dedicated to measuring greenhouse gases in the near future.

Several hours before the launch in Taiyuan, a Long March 3B carrier rocket blasted off from the Xichang Satellite Launch Center in Sichuan province on Friday and put the ChinaSat 6D communication satellite into orbit.

That satellite, developed by the China Academy of Space Technology, is tasked with transmitting radio and television signals to islands in the South China Sea and small countries in the Pacific Ocean, its designers said.

China has carried out 11 space launches so far this year.

The nation's major space contractors announced at the start of 2022 that they planned to conduct more than 50 launches.